

**MISSOURI**  
DEPARTMENT OF  
NATURAL RESOURCES

## Total Maximum Daily Load Information Sheet

### Craven Ditch

Water Body ID: 2816

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#### Water Body Segment at a Glance:

**County:** Butler  
**Nearby City:** Poplar Bluff  
**Length:** 11.6 miles  
**Pollutants:** Low dissolved oxygen  
**Source:** Unknown



Location of Butler County, Missouri

#### Scheduled for TMDL development:

TMDL development schedules are subject to change.

The most current schedule for TMDL development is available on the department's website at  
[dnr.mo.gov/env/wpp/tmdl/wpc-tmdl-progress.htm](http://dnr.mo.gov/env/wpp/tmdl/wpc-tmdl-progress.htm)

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#### Description of the Problem

A water body is considered impaired when it fails to meet applicable water quality standards. Water quality standards consist of designated uses, water quality criteria, an antidegradation policy and implementation procedures. Craven Ditch is impaired due to exceedances of water quality criteria for the protection of aquatic life.

#### Designated uses of Craven Ditch\*

- Warm Water Habitat (WWH)
- Secondary Contact Recreation (SCR)
- Human Health Protection (HHP)
- Irrigation (IRR)
- Livestock and Wildlife Protection (LWP)

\*In addition to these specific uses, all waters of the state are protected by the general water quality criteria that are specified in the state's Water Quality Standards at 10 CSR 20-7.031(4).

#### Designated use that is impaired

- Warm Water Habitat (WWH)

### **Criteria that apply**

The dissolved oxygen criterion applicable to Craven Ditch is found in Table A of Missouri's Water Quality Standards at 10 CSR 20.7.031. Table A states that the minimum allowable dissolved oxygen concentration for the protection of aquatic life in warm water habitats is a minimum 5 milligrams per liter (mg/L).

### **Background information and water quality data**

Craven Ditch is a channelized stream partially located within the municipal boundary of Poplar Bluff. Craven Ditch provides an alternative flow pathway between Pike Creek and Main Ditch. A water is judged to be impaired due to low dissolved oxygen if ten percent or more of available dissolved oxygen measurements fall below the water quality criterion of 5 mg/L. For Craven Ditch, six dissolved oxygen measurements were made in 1992. Of these six measurements, four were found to be below 5 mg/L. This equates to a 67 percent exceedance rate. For this reason, Craven Ditch was judged to be impaired due to low dissolved oxygen.

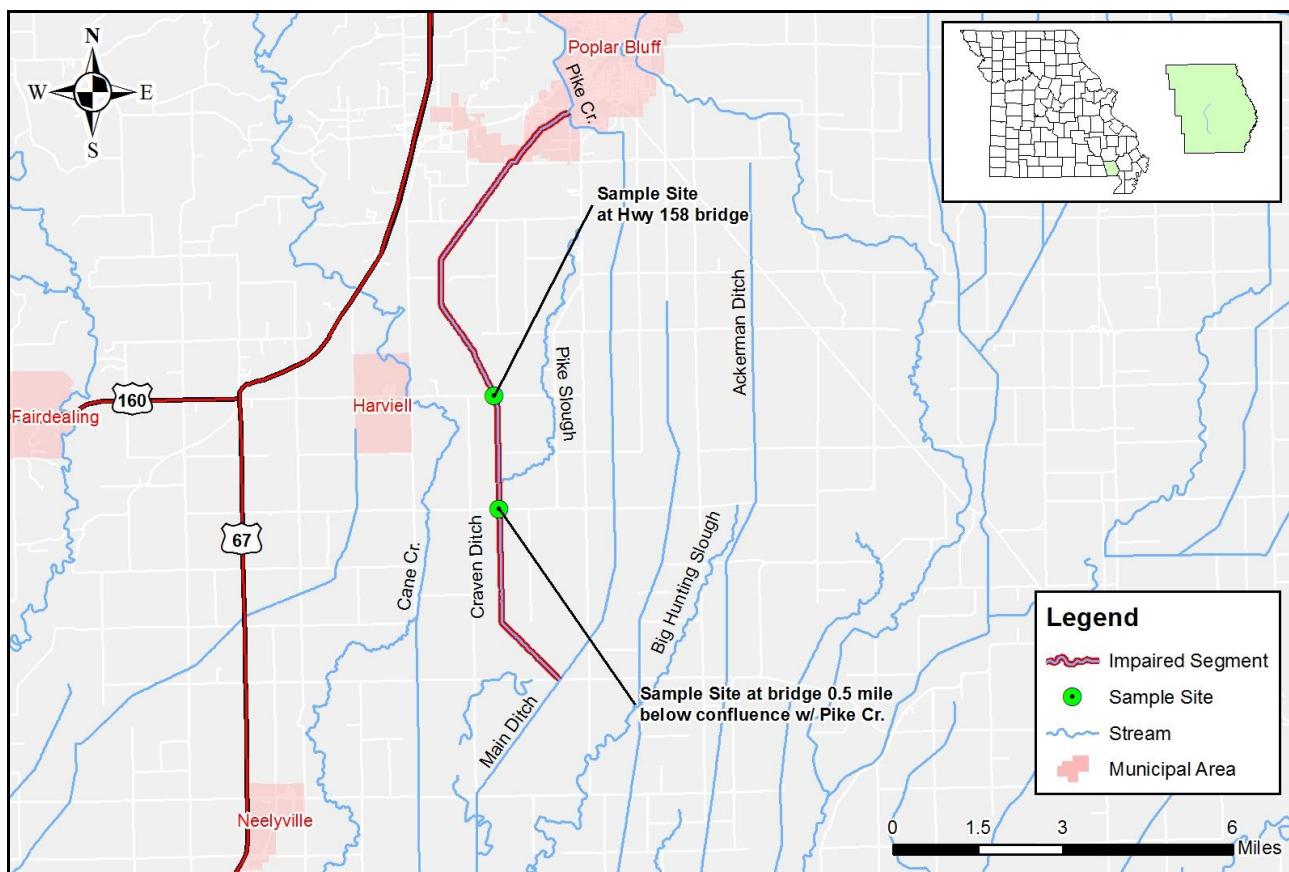
### **Dissolved Oxygen Data**

<i>Org</i>	<i>Site Code</i>	<i>Site Name</i>	<i>Mo</i>	<i>Day</i>	<i>Year</i>	<i>Time</i>	<i>Dissolved Oxygen</i>
MDNR	2816/3.4	@bridge 0.5 mi. Below confluence w/ Pike Cr.	9	1	1992	745	4.5
MDNR	2816/3.4	@bridge 0.5 mi. Below confluence w/ Pike Cr.	9	2	1992	645	4.7
MDNR	2816/3.4	@bridge 0.5 mi. Below confluence w/ Pike Cr.	9	3	1992	630	4.8
MDNR	2816/5.5	Craven Ditch @Hwy 158 bridge	9	1	1992	700	5.2
MDNR	2816/5.5	Craven Ditch @Hwy 158 bridge	9	2	1992	600	5.4
MDNR	2816/5.5	Craven Ditch @Hwy 158 bridge	9	3	1992	700	2.5

### **TMDL for Craven Ditch**

The Craven Ditch TMDL will calculate the maximum amount of each listed pollutant that the stream can receive and still meet water quality standards. The TMDL will also identify all potential or suspected pollutant sources in the watershed and distribute the allowable pollutant loads among those various sources. When developed, the Craven Ditch TMDL will use the most current and available data. For this reason, the final TMDL may present information that differs from that contained in this information sheet.

## Map of Craven Ditch



### For more information call or write:

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